

## Study of the Decay $\Omega^- \rightarrow \Xi^- \pi^+ \pi^-$ in the HyperCP Experiment

Oleg Kamaev

Illinois Institute of Technology

The HyperCP (E871) experiment collected  $\sim 10^{10}$  hyperon decays during the 1997 and 1999 Fermilab fixed-target running periods, including  $\sim 10^7$  Omega decays. A signal of  $\sim 100$  events has been observed in the rare decay modes  $\Omega^\pm \rightarrow \Xi^\pm \pi^+ \pi^-$ . We extract limits on the contribution of  $\Omega^- \rightarrow \Xi^{*0}(1530) \pi^-$  to this process.